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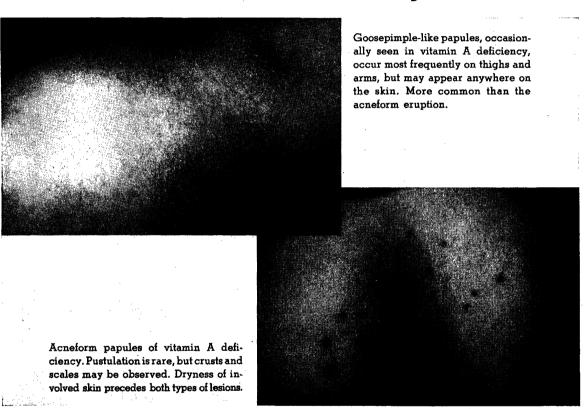
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This page is the first of a series on vitamin deficiencies presented by the research division of The Upjohn Company, not merely because of the profession's widespread interest in the subject, but also because of the service which these reproductions might render toward earlier recognition of vitamin deficiency states.

The Cutaneous Manifestations of Vitamin A Deficiency



Although the classic manifestations of vitamin A deficiency are familiar to every physician, many of these represent late stages of deprivation. In some cases, cutaneous changes may provide an opportunity for earlier recognition. These cutaneous changes, when fully developed, consist of two distinct types of eruptions—a goosepimple-like papule and an acneform lesion in which pustulation rarely occurs. The absence of perspiration is due to atrophy of the sweat glands and keratinizing metaplasia of the ducts. The papular cornified lesions are due to the keratinization of the sebaceous glands and hair

follicles. In some subjects, accentuation in pigmentation due to an increase in melanin and melanin-building pigments is observed. Unlike the ocular manifestations of vitamin A deficiency, the skin lesions respond slowly to specific therapy, requiring from 4 to 12 weeks for their eradication.

A two-page insert, presenting full-color reproductions of vitamin A deficiency lesions, and so organized that it may be easily retained

for future reference, appears in the January 20 issue of the Journal of the American Medical Association.

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Alum Rock Sanatorium 42	Hotel Sir Francis Drake 26	Philip Morris & Co., Ltd., Inc 19
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Baxter, Inc., Don	Jenkel-Davidson Optical Co 39	Postgraduate Instruction 9
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Broemmel's Laboratories 3	La Loma Feliz 12	Riggs Optical Company 30
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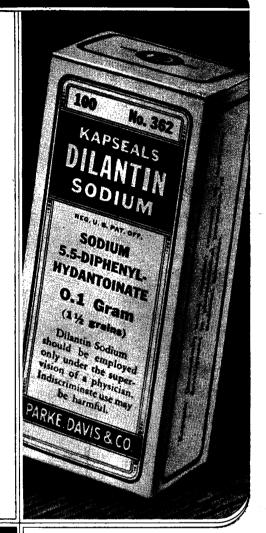
advertised in CALIFORNIA AND WESTERN MEDICINE, and do not know where to secure it; or do not know where to obtain some automobile supplies you need. This A. M. A. Service Bureau will give you the information. Whenever possible, the goods will be advertised in our pages; but if they are not, we urge you to write direct to the Coöperative Medical Advertising Bureau, 535 N. Dearborn Street, Chicago, Illinois. CALIFORNIA AND WESTERN MEDICINE and the A. M. A. Service Bureau desire to serve you.

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DILANTIN SODIUM (sodium 5,5-diphenylhydantoinate), an anticonvulsant with little or no hypnotic effect, is supplied for the treatment of epileptics not responsive to other medication. Extensive clinical use indicates that Dilantin Sodium will prevent, or greatly decrease the frequency and severity of, convulsive seizures in a majority of epileptics. However, since the significance of observed reactions to Dilantin Sodium is not fully established, patients receiving the drug should be closely observed.

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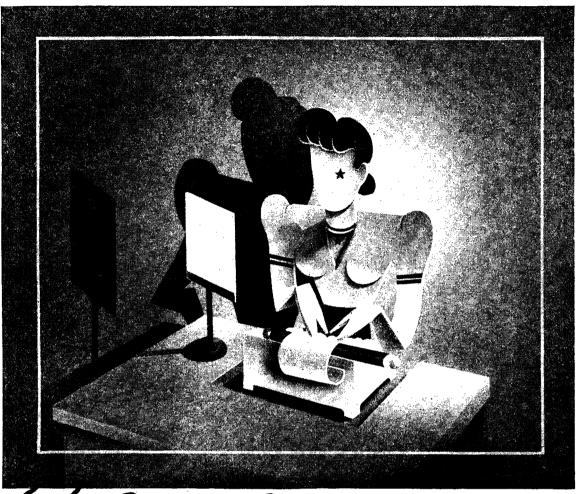


*The name' Dilantin' Sodium designates the sodium salt of diphenyl hydantoin. 'Dilantin' Sodium was formerly known as 'Dilantin,' a term now designating the basic substance, diphenyl hydantoin. Dilantin Sodium is available as 0.1 Gram (1½-grains) and 0.03 Gram (½-grain) Kapseals, in bottles of 100, 500 and 1000.

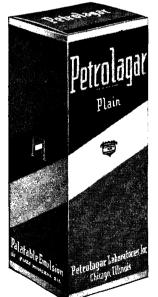




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For Sedentary Workers --



..Petrolagar

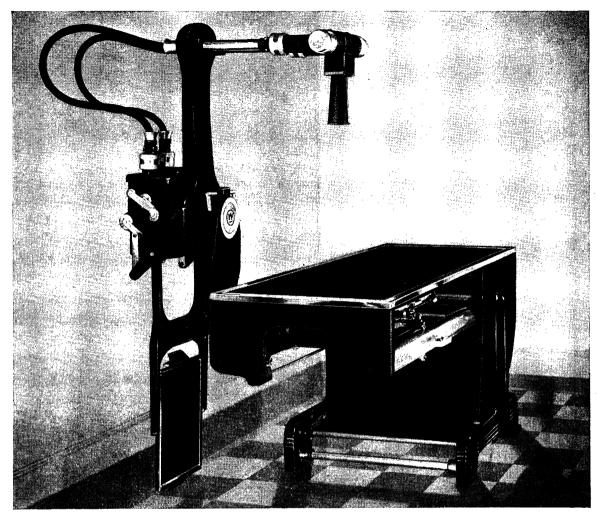
Helps to establish and maintain a regular Habit Time of Bowel Movement. One tablespoonful of Petrolagar Plain, taken morning and night, promotes the formation of a soft, comfortably passed stool.

Petrolagar is especially useful in the treatment of chronic constipation. It may be taken over an extended period of time without increasing the dosage.

Any of the Five Types of Petrolagar will be sent to physicians on request.



Petrolagar . . . Liquid petrolatum 65 cc. emulcified with 0.4 Gm. agar in a menstruum to make 100 cc.



SIMPIFX

U I I'I L L / The new all-purpose diagnostic SIMPLEX carries simplicity of operation and technique to a new high—at a price that sets

an all time low among really fine x-ray equipment.

See the Simplex at your nearest Westinghouse X-Ray office . . . put it to every test and compare it by any standard . . . or read about its remarkable features in bulletin 380.

You will find it an interesting experience, that brings you a new conception of 1940 values in good x-ray apparatus.

Westinghouse X-Ray Co., Inc.



Your representative may bring me the new Simplex Bulletin	
Just mail it to me; no calls, please	

A concerted plan of attack on-

PNEUMONIA

THE OUTLOOK FOR THE TREATMENT OF PNEUMONIA, this Winter, is better than ever. DR. RUSSELL L. CECIL, (discussion of "Sulfapyridine in the Treatment of Pneumonia"—PLUMMER, N. and ENSWORTH, H. K., J. A. M. A., Nov. 18, 1939, 113:1853) summarizes it very aptly:

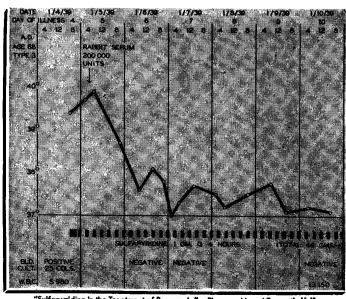
"... We have a double-barreled gun for the treatment of pneumonia, and whether we need both barrels or only one remains to be seen. DR. BULLOWA and DR. MAGLEODEXPRESSED it very well when they said that serum fortifies the pneumonia patient; sulfapyridine injures the pneumococcus. For the present we must keep our serum handy and use it in severe cases along with sulfapyridine, and we must continue to type our pneumonias in order that we may get all the better oriented with regard to this newformof therapy."

Unless either agent is specifically contraindicated, the combination of drug and serum should always be employed when:

- 1 treatment is begun after the third day;
- 2 two or more lobes are involved;
- 3 the patient is over 40;
- 4 the patient is pregnant or in the first week of the puerperium;
- 5 blood culture is positive.

When used simultaneously with drug, smaller amounts of serum may be employed.

Information on sulfapyridine or pneumonia serum on request.



"Sulfapyridine in the Treatment of Pneumonia"—Plummer, N. and Ensworth, H. K.

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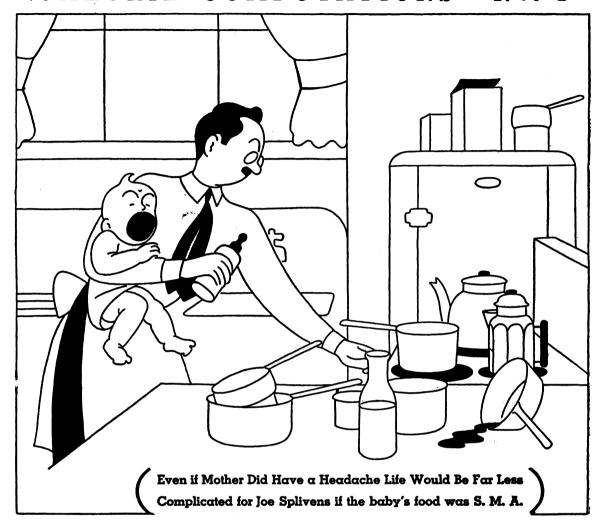
SIGNIFICANT CLINICAL RESULTS IN A SERIES OF SMOKING TESTS

FACTS FROM... Laryngoscope, Feb. 1935 Vol. XLV, No. 2, 149-154

- (1) At the beginning of the experiment, 73.7% of the cases showed a congested condition of the pharynx and larynx due to smoking.
- (2) On changing to Philip Morris, 62.3% of the cases cleared. The other 37.7% showed considerable improvement.
- (3) On changing back to cigarettes made by the ordinary method, 80% showed a return of congestion within one week!

REPRINTS of published studies on the irritant properties of cigarettes are available. Address Philip Morris & Co. Ltd. Inc., 119 Fifth Ave., N.Y.

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S. M. A. is easy to prepare. Simply dilute according to directions (furnished to physicians), adjust to proper temperature and feed.

It is not necessary to modify S. M. A. for the same reason that it is unnecessary to modify breast milk.

S. M. A. is economical and easy to prepare.

NORMAL INFANTS RELISH S.M.A. - DIGEST IT EASILY AND THRIVE ON IT

S. M. A. is a food for infants—derived from tuberculin-tested cow's milk, the fat of which is replaced by animal and vegetable fats including biologically tested cod liver oil; with the addition of milk sugar and potassium chloride;



altogether forming an antirachitic food. When diluted according to directions, it is essentially similar to human milk in percentages of protein, fat, carbohydrate and ash, in chemical constants of the fat and in physical properties.

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NOT ADVERTISED TO THE LAITY

The Morning Milk Company feels that all therapeutic claims should be disseminated exclusively through the medical profession. For this reason Special Morning Milk is not advertised to the laity. Furthermore, no formula instructions are distributed to the laity.

Special Morning Milk contains 500 units Vitamin D to the reconstituted quart (16 fluid oz. Special Morning Milk and 16 fluid oz. water). The Vitamin D added to Special Morning Milk is obtained from the natural source—cod liver oil. However, there is no cod liver oil taste in the milk.



BECAUSE THERE IS NO COD LIVER OIL TASTE IN SPECIAL MORNING MILK, THE ADMINISTRATION OF VITAMIN D IS GREATLY SIMPLIFIED.



MORNING MILK COMPANY

STOCKTON, CALIFORNIA

WHEN A HEAD COLD BEGINS

Case No. 1 (C. S.) Male, white, age 25. Acute head cold. After a few inhalations from 'Benzedrine Inhaler' the turbinates were shrunk to normal within seven minutes.

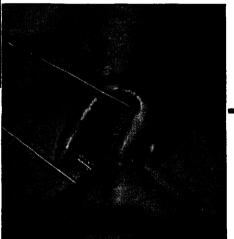
'Benzedrine Inhaler' is particularly valuable when used at the onset of a head cold—at the very first sneeze. By relieving congestion, it improves respiratory ven-

> tilation and assists in maintaining drainage of the nasal accessory sinuses.

> The early use of 'Benzedrine Inhaler' is especially indicated for your patients who catch cold easily.



Fig. 1—Time 2:15 P.M. Before treatment.



Accepted Parking Accepted Acce

Fig. 2 —Time 2:22 P. M. After using 'Benzedrine Inhaler'.



Each tube is packed with amphetamine, S. K. F., 325 mg.; oil of lavender, 97 mg.; menthol, 32 mg. 'Benzedrine' is S. K. F.'s trade mark, Reg. U.S. Pat. Off.

BENZEDRINE INHALER

A Volatile Vasoconstrictor

SMITH, KLINE & FRENCH LABORATORIES, PHILADELPHIA, PA.



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KARO is ideal in concentrated milk mixtures because it is saturated with maltose-dextrins, easily digested, not readily fermented and does not cloy the appetite for other foods.

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KARO provides 60 calories per tablespoon, added to foods and fluids, when the child fails to gain in weight on an adequate diet or his vitality is depleted during convalescence.

Adolescents .

KARO is invaluable with each meal to help fulfill the enormous energy requirements of adolescence. Accessory meals may be prescribed with advantage and KARO added to foods and fluids.



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Invites inquiries from Physicians . . . for further information

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1940

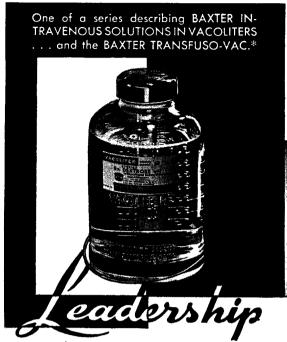
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Medicine

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Depends upon meeting every requirement with "an unbroken technique" of uniform excellence. On this record of service, old friends and new are invited to make everfuller use of Baxter's Intravenous Solutions: Originator and Pioneer. Baxter originated the unbroken technique of aseptic intravenous infusion—pioneered the standardized commercial production of Intravenous Solutions—concentrates on producing faultless solutions in a perfected container-dispenser at lowest feasible cost.

Quality. Baxter long ago perfected a 21 test technique to prove every unit of Baxter's solutions sterile, pyrogen-free and stable. Completeness. In variety of solutions and sizes packed, Baxter's line is complete.

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Economy. Baxter's Solutions are economically priced; quickly available; simplify hospital routine and reduce expenses.

What? BLOOD TRANSFUSION ON A SNOW WHITE SHEET



To perform a blood transfusion single-handed and without spilling a drop of blood is important, of course. It symbolizes a new perfection of technique and a new economy of the precious fluid, which are notable...

But of even greater significance is the fact that the newly accepted Baxter Transfuso-Vac method supplies the profession with an unbroken technique of asepsis in blood transfusion. Here at last is a method which carries through the entire cycle of Drawing the blood, Citrating, Transporting and Storing if necessary, Filtering and Infusing—all with one vacuum container and a minimum of accessories.

* 2½% Sodium Citrate in Physiological Solution of Sodium Chloride in the Baxter Transfuso Vac Container, with vacuum for drawing blood, is rapidly coming to be regarded as indispensable for indirect blood transfusions.

Write for complete descriptive literature on the Baxter Transfuso Vac and Transfuso Donor Set, and Baxter Intravenous Solutions in Vacoliter dispensing containers.

DON BAXTER, Inc.

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OLEUM PERCOMORPHUM

Even if the bottle of Oleum Percomorphum is accidentally tipped over, there is no loss of precious oil nor damage to clothing and furnishings. The unique Mead's Vacap-Dropper* is a tight seal which remains attached to the bottle, even while the antiricketic is being measured out. Mead's Vacap-Dropper offers these extra advantages also, at no increase in price:

Unbreakable

Mead's Vacap-Dropper will not break even when bottle is tipped over or dropped. No glass dropper to become rough or serrated.

No "messiness"

Mead's Vacap - Dropper protects against dust and rancidity. (Rancidity reduces vitamin potency.) Surface of oil need never be exposed to light and dust. This dropper cannot roll about and collect bacteria.

Accurate

This unique device, after the patient becomes accustomed to using it, delivers drops of uniform size.

No deterioration

Made of bakelite, Mead's Vacap-Dropper is impervious to oil. No chance of oil rising into rubber bulb, as with ordinary droppers, and deteriorating both oil and rubber. No glass or bulb to become separated while in use.

*Supplied only on the 50 c.c. size; the 10 c.c. size is still supplied with the ordinary type of dropper.

OLEUM PERCOMORPHUM More Economical Now Than Ever

MEAD JOHNSON & CO., Evansville, Indiana, U. S. A.

How to Use MEAD'S Vacap-Dropper

Remove both top and side caps. Wipe dropper tip. Place fore-finger firmly over top opening and regulate rate of flow by varying the degree of pressure. Oleum Percomorphum is best measured into the child's tomato juice. This is just as convenient and much safer than dropping the oil directly into the baby's mouth, a practice which may provoke a coughing spasm.



U. S. Pat. Nos. 2105028 and 101575

METHODS FOR QUANTITATIVE ESTIMATION OF THE VITAMINS

IV. Measurement of Vitamin B, Activity

The existence of the factor now known as vitamin B₁ was first established by the work of Eijkmann over four decades ago. In 1912, Funk (1) isolated a nitrogenous substance —capable of curing polyneuritis—to which he applied the provisional name of "beriberi vitamine." Vitamin B₁, therefore, is the first of the essential food factors to be termed a vitamin.

Despite this fact, it has only been within recent years that specific biologic methods for estimation of this vitamin—free from the serious limitations of the earlier assay methods—have become available. Many of the earlier techniques were proposed before resolution of the "vitamin B complex" into its component factors. In addition, only within the past few years have reference standards of vitamin B₁ activity—the standard absorption product and thiamin—become generally and conveniently available for use in the quantitative determination of vitamin B₁.

As indicated in a recent review (2), modern bioassay methods for vitamin B₁ are quite diverse in detail. It is hoped that identification of this dietary essential (3) will soon bring a dependable chemical method for its estimation which will permit more extensive and reliable investigation of the vitamin B₁ activities of foods than has heretofore been possible. Recent advances in the science of nutrition, however, have brought definite refinement and improvement of modern bioassay methods for determination of the antineuritic factor.

In illustration, quite recently a rat curative technique employing crystalline thiamin chloride as the Reference Standard was endorsed by the U. S. P. Vitamin Advisory Board (4), for use in determining the vitamin B₁ activities of foods or other biological

materials which contain a sufficiently high concentration of the vitamin. In this method young rats (not exceeding 50 grams in weight or 30 days of age) are maintained on a specified vitamin B₁-deficient diet until their body stores of the vitamin are depleted as judged by the onset of acute polyneuritis. Such depleted animals are suitable for use in the assay proper provided the depletion period required for the development of acute polyneuritis has not exceeded 75 days.

To each properly prepared animal is administered a single dose of the reference standard of such size that a curative period of not less than 5 or more than 15 days will be produced. Each animal is then carefully observed until the exact degree of acute polyneuritis reappears, at which time an appropriate single dose of the material under assay is administered. The duration of the cure of polyneuritis is again observed. Only data obtained from successive administration to the same animal of reference standard and assay material (using not less than 8 rats) are to be considered. Data obtained from groups of rats in which the duration of the cure following the administration of assay material is equal to or greater than that produced by the reference standard are suitable for use in calculating the vitamin B₁ potency of the materials under assav.

As has been previously described (5), the effect of commercial canning on vitamin B₁ is variable and in any specific case largely depends upon the nature of the product itself. However, among the great variety of commercially canned products are many foods which—when included in the varied diet—will contribute valuable amounts of this essential vitamin.

AMERICAN CAN COMPANY 230 Park Avenue, New York, N. Y.

(1) 1912. J. State Med. 20, 341.
 (2) 1938. J. Am. Med. Assn. 111, 927.
 (3) 1938. J. Am. Med. Assn. 110, 727.

(4) 1939. J. Am. Pharm. Assn. 28, 267.
(5) 1939. The Canned Food Reference Manual, American Can Co., New York.

We want to make this series valuable to you, so we ask your help. Will you tell us on a post card addressed to the American Can Company, New York, N. Y., what phases of canned foods knowledge are of greatest interest to you? Your suggestions will determine the subject matter of future articles. This is the fifty-fifth in a series, which summarize, for your convenience, the conclusions about canned foods reached by authorities in nutritional research.



The Seal of Acceptance denotes that the statements in this advertisement are acceptable to the Council on Foods of the American Medical Association.

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"ALL THINGS TO ALL MEN" must be the slogan of the printing house that aspires to a high percentage of usefulness.

Possibly your ideas may be of the nebulous sort that require the expert service of a good layout man, or artist.

Or, as frequently happens, your plans have been worked out along general lines, but would be all the better for the few suggestions that we might be able to make.

Printing that can make sales for its sponsors is the result of up-to-date equipment and skilled workmen—No doubt! But there's an added knack that comes from long experience. When a printer has that, your sales message really hums.

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SOBISMINOL MASS SOBISMINOL SOLUTION SQUIBB



Sobisminol preparations contain a complex organic bismuth compound resulting from the interaction of sodium bismuthate, tri-isopropanolamine and propylene glycol. Supplied in appropriate dosage forms for oral and intramuscular use in the treatment of syphilis.

CAPSULES SOBISMINOL MASS SQUIBB for oral use contain 0.75 Gm. Sobisminol Mass and represent 150 mg. bismuth equivalent. In bottles of 100 and 1000 capsules. Aver. adult dose. 2 capsules. t. i. d.

sobisminol solution squibb for intramuscular use—each cc, represents 20 mg, of bismuth. In 1-cc, size ampuls—boxes of 12. In 2-cc, size ampuls in boxes of 12 and 100—50-cc, bottles. Aver, adult dose, 2 cc, twice weekly.

An effective spirocheticide for oral and for intramuscular use

Sobisminol Mass and Sobisminol Solution have been subjected to extensive pharmacologic and clinical study. The results of the studies indicate that these preparations are promptly and quite uniformly absorbed, usually well tolerated, and have a wide margin of safety. The bismuth therein is excreted at such rates and in such quantities as to indicate that there is little accumulation of the metal while the quantities retained are adequate for a sustained systemic antisyphilitic effect.

Sobisminol Mass, given orally, has been shown to have an antisyphilitic effect comparable to that produced by Sobisminol Solution and other soluble compounds of bismuth injected intramuscularly. The preparation has been administered orally daily for periods of many months without producing evidence of cumulative toxic effects. It can be used wherever bismuth therapy is indicated in the treatment of syphilis, including its use with one of the arsenicals or in alternate courses with arsenicals according to the preference of the clinician.

For literature address the Professional Service Department, 745 Fifth Ave., New York, N. Y.

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